APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/687,244	10/12/2000	Shing Mark Lin	ADAPP169	1180

7590   07/30/2003

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EXAMINER
TRUONG, LECHI

ART UNIT	PAPER NUMBER
2126	

DATE MAILED: 07/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/687,244	LIN ET AL.
	Examiner	Art Unit
	LeChi Truong	2126

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>12 October 2000</u> .

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-20</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-20</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

    If approved, corrected drawings are required in reply to this Office action.

12)☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

        1.☐ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____ .

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

    a) ☐ The translation of the foreign language provisional application has been received.

15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)   4) ☐ Interview Summary (PTO-413) Paper No(s). _____ .

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)   5) ☐ Notice of Informal Patent Application (PTO-152)

3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u> .   6) ☐ Other: .

DETAILED ACTION

Claim Rejections - 35 USC § 103

1.   Claims **1-20** are rejected under 35 U.S.C. 103(a) as being unpatentable over McCarty et

al (US. Patent 5,954,796) in view Admitted Prior Art (APA).

As to claim 1, McCarty teaches a data structure (an FC-specific LOG Function

information structure 530, col 8, ln 27-67), a Fibre Channel attribute value (port_name 535C, its

unique Node_Name 535 B, Decice_Function 535 D, Device_type 535 E, col 8, ln 27-67), a

functionality of a Fibre channel Controller (the LOG Function, col 8, ln 27-67), user

modification of the Fibre Channel Channel attribute value (a configuration change in the FC

environment 220 and it would make any necessary changes in the FC information structure 530,

col 9, ln 1-15), a modification request(the upper – level commands, col 8, ln 60-67), a code

segment(the OS, col 8, ln 27-67), operation of the Fiber channel(the mapping, col 8, ln 27-67),

altering the functionality of the Fibre Channel(FC-specific information structures associated

with unique OS-compatible link elements are suitably updated, col 9, ln 1-44).

APA does not explicit teach the term " Fibre Channel controller". However, APA teaches

the Fibre Channel Controller 206(page 6, ln 5-14).

It would have been obvious to apply the teaching of APA to McCarty in order to provide

a high-speed data transfer interface that can be used to connect systems and the storage in point -

to – point.

As to claim 2, McCarty teaches the modification request (the upper – level commands,

col 8, ln 60-67).

As to claim 3, McCarty teaches the Code segment (the OS, col 8, ln 27-67)

McCarthy does not teach The Code segment as an OSM. However, APA teaches OSM

(page 4, ln 1-20).

It would have been obvious to apply the teaching of APA to McCarthy in order to

provide an operation system dependent which depend on the type from the operating system of

the executing application.

As to claim 4, McCarthy does not   teach a Fibre Channel Hardware Interface Module.

However, APA teaches (CHIM 106, page 5, ln 1021).

It would have been obvious to apply the teaching of APA to McCarthy in order to check

the presence of adapter hardware, initialize the adapter, and access connected devices.

As to claim 5, McCarthy does not teach the modification request (the upper – level

commands, col 8, ln 60-67).

McCarthy does not teach the modification request is received by the FCHIM. However,

APA teaches the OSM 104 translates the command into an operating system independent CIM,

(col 4, ln 18-21), the CHIM 106 ... receives CHIM commands and translates the CHIM

commands into commands for the SCSI controller (page 5, ln 8-18).

It would have been obvious to apply the teaching of APA to McCarthy in order to check

the presence of adapter hardware, initialize the adapter, and access connected devices.

As to claim 6, McCarthy teaches the function of the Channel controller (FC-specific

information structures associated with unique OS-compatible link elements are suitably updated,

col 9, ln 1-44/ col 8, ln 28-67), the Fibre Channel attribute value (port_name 535C, its unique

Node_Name 535 B, Decice_Function 535 D, Device_type 535 E, col 8, ln 27-67)

As to claim 7, McCathy teaches the Fibre Channel attribute values (port_name 535C, its

unique Node_Name 535 B, Decice_Function 535 D, Device_type 535 E, col 8, ln 27-67/ col 7,

ln 45-67), a data type value (0_0_0/ 0_1_0, col 9, ln 45-67), an operating system (OS, col 10, ln

1-35).

McCarthy does not teach the operating system as the operating system dependent and the

operating system independent. However, APA teaches APA teaches OSM (page 4, ln 1-20),

APA teaches CHIM 106(page 5, ln 1-18).

It would have been obvious to apply the teaching of APA to McCarthy in order to

provide a large depth an breadth of products, which include SCIS disk drives, to provide an

operation system dependent which depend on the type from the operating system of the

executing application and to check the presence of adapter hardware, initialize the adapter, and

access connected devices.

As to claim 8, McCarthy does not teach the operating system dependent code module.

However, APA teaches OSM (page 4, ln 1-20).

It would have been obvious to apply the teaching of APA to McCarthy in order to

provide an operation system dependent which depend on the type from the operating system of

the executing application.

As to claim 9, McCarthy does not teach the OSM is further capable of providing

operating system independent commands. However, APA teaches the OSM 104 translates the

command into an operating system independent CHIM device...(page 4, ln 10-21).

It would have been obvious to apply the teaching of APA to McCarthy in order to check

the presence of adapter hardware, initialize the adapter, and access connected devices.

As to claim 10, McCarthy teaches a Fibre Channel Hardware Interface Module (The FC environment, col 4, ln 1-20). McCarthy does not teach the operating system independent code module. However, APA teaches CHIM 106(page 5, ln 1-18).

I would have been obvious to apply the teaching of APA to McCarthy in order to check the presence of adapter hardware, initialize the adapter, and access connected devices.

As to a profile data structure of claim 11, see the rejection of claim 5.

As to a profile data structure of claim 12, see the rejection of claim 6.

As to claim 13, McCarthy teaches a Fibre Channel maximum port value (port name, col 7, ln 45-67/ col 8, ln 40-67).

As to claim 14, McCarthy teaches a Fibre Channel Logical Unit Number (LUN)(a BUS_TARGET_LUN, col 9, ln 45-67).

As to claim 15, McCarthy teaches a Fibre Channel Arbitrated Loop value (an Arbitrated Loop Physical Address, col 7, ln 45-67).

As to claim 16, McCarty teaches a profile data structure (an FC-specific LOG Function information structure 530, col 8, ln 27-67), a Fibre Channel attribute value (port_name 535C, its unique Node_Name 535 B, Decice_Function 535 D, Device_type 535 E, col 8, ln 27-67), an operating system (the OS, col 8, ln 27-67), altering the functionality of the Fibre Channel (FC-specific information structures associated with unique OS-compatible link elements are suitably updated, col 9, ln 1-44).

APA does not explicit teach an operating system as an operating system dependent code module and an operating system independent code, the term " Fibre Channel controller", However, APA teaches the Fibre Channel Controller 206(page 6, ln 5-14), However, APA

teaches APA teaches OSM (page 4, ln 1-20), APA teaches CHIM 106(page 5, ln 1-18), the OSM 104 makes a series of calls to the MHIM 106 (page 5, ln 1-8) that allow the CHIM 106 communicate with the Fibre channel.

It would have been obvious to apply the teaching of APA to McCarthy in order to provide a large depth an breadth of products, which include SCIS disk drives, to provide an operation system dependent which depend on the type from the operating system of the executing application and to check the presence of adapter hardware, initialize the adapter, and access connected devices.

As to claim 17, McCarthy does not teach the OSM being capable of receiving operating system specific commands. However, APA teaches the OSM 104 receives the operating system specific device access command (page 4, ln 17-21).

It would have been obvious to apply the teaching of APA to McCarthy in order to provide an operation system dependent which depend on the type from the operating system of the executing application.

As to claim 18, McCarthy does not teach the OSM is further capable of providing operating system independent commands. However, APA teaches the OSM 104 translates the command into an operating system independent (page 4, ln 17-27).

It would have been obvious to apply the teaching of APA to McCarthy in order to an operation system dependent, which depend on the type from the operating system of the executing application.

As to the system of claim 19, see the rejection of claim 10.

As to the system of claim 20, see the rejection of claim 11.

2.   *Conclusion*

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to LeChi Truong whose telephone number is (703) 305 5312. The

examiner can normally be reached on 8 - 5.

Fax phone: AFTER_FINAL faxes must be signed and sent to: (703) 746-2738, OFFICAL

faxes must be signed and send to: (703) 746-7239, NON OFFICIAL faxes should not be signed,

please send to: (703) 746-7240

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703 305 9000.

LeChi Truong
July 23, 2003

JOHN FOLLANSBEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100